Division of Maintenance

16651 Crabbs Branch Way Rockville, Maryland 20855-2201

Mr. Shawn M. Garvin

Regional Administrator

Philadelphia, PA 19103Dear



May 21, 2012

RECEIVED

MAY 22 2012

EPA, REGION III OFFICE OF REGIONAL ADMINISTRATOR

Mr. Gavin:

EPA, Region 3 1650 Arch Street

I have enclosed the PCB remediation plan for Paint Branch HS School as required by 40 CFR 761.61. A draft of the remediation plan has been graciously reviewed by Scott Rice, PCB Compliance Officer on PCBs in Caulk for EPA Region 3.

Thank you for your consideration of this request. Please contact me with any questions or comments.

Sincerely,

Bull

Brian Mullikin, Environmental Team Leader

PCB-CONTAMINATED MATERIAL REMOVAL AND VERIFICATION PLAN

Paint Branch High School 14121 Old Columbia Pike Burtonsville, Maryland

Submitted by:

Montgomery County Public Schools 16651 Crabbs Branch Way Rockville, Maryland 20855

HESS Construction & Engineering Services 804 West Diamond Avenue Suite 300 Gaithersburg, MD 20878

May 2012

PCB-CONTAMINATED MATERIAL REMOVAL AND VERIFICATION PLAN

Paint Branch High School 14121 Old Columbia Pike Burtonsville, Maryland

40 CFR 761.61(a)(3)(i)(E) CERTIFICATION

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete..

- Lamut Song	290.314.1064	05-18-12
Property Owner Representative Montgomery County Public Schools	Phone	Date
James Song, Director		
Department of Facilities Management		
Construction Management Representative Matt Evans, Project Executive	301-757 2947 Phone	5/18/11 Date
HESS Construction & Engineering Services		
PCB Abatement Subcontractor Representative	Phone	Date

1 INTRODUCTION

This document is intended to provide notification of the removal of polychlorinated biphenyl (PCB) contaminated caulk and building materials from the Montgomery County Public School (MCPS) Paint Branch High School. In addition, this document describes verification procedures to ensure that all PCB-contaminated materials have been removed. If other PCB-containing materials are found at the project site during demolition activities, MCPS will submit additional notification to the regional administrator if this plan is modified.

According to the *PCBs in Caulk* fact sheet, the Environmental Protection Agency (EPA) states that caulk containing PCBs was used in many buildings, including schools, during building construction, renovation, or repair from the 1950s through the late 1970s (EPA 2009a).

Exposure to PCBs can cause a variety of adverse health effects in animals and humans. PCBs have been shown to cause cancer in animals, as well as a number of serious non-cancer health effects, including effects on the immune system, reproductive system, nervous system, endocrine system and other health effects. In humans, PCBs are potentially cancer-causing and can cause other non-cancer effects as well (EPA 2009a).

2 PROJECT SITE

Paint Branch High School is located at 14121 Old Columbia Pike in Burtonsville, Maryland. The school was constructed in 1969 with a subsequent addition on the east side in 1987. The building is currently being prepared for demolition in summer 2012. A local aerial photograph of the high school and the surrounding area is provided in Figure 1.

3 OVERALL CLEANUP GOALS

Caulk containing PCBs at levels ≥ 50 ppm is not authorized for use under the PCB regulations and must be removed, whereas caulk containing PCBs at levels < 50 ppm may remain in place. PCBs in caulk are known to contaminate adjacent building material (e.g., masonry, wood, and concrete) and soil surrounding the building. Therefore, any surrounding building material that is contaminated by ≥ 50 ppm PCB-containing caulk (i.e., through leaching of PCBs) is considered PCB remediation waste and must be cleaned up in accordance with 40 CFR §761.61. Safely removing the PCB-containing caulk, while preventing further contamination and cleaning up surrounding materials should be the focus of cleanup projects (EPA 2009a).

The Verification of PCB Cleanup by Sampling and Analysis (EPA-560/5-85-026) states that the EPA has established requirements for reporting PCB releases based on the amount of material released, PCB disposal requirements, and materials contaminated by PCBs. Under the Toxic Substance Compliance Act (TSCA) regulations within 40 CFR 761.30 and 761.60, PCB releases are viewed as improper disposal of PCBs. Although specific PCB cleanup requirements are not established by TSCA regulations, each regional administrator is given authority by policy to enforce adequate cleanup of PCB releases to protect human health and the environment (EPA 1985).

PCB releases are generally viewed as unique situations to be evaluated on a case-by-case basis by both the property owner and the EPA Regional Office. However, a general framework is often used to approach the problem. Most cleanup activities involve quick response, removal, or cleaning of suspected contaminated material, and post-cleanup sampling to document

adequate cleanup. Major considerations involved in the cleanup process include minimizing environmental dispersion, minimizing any present or future human exposure to PCBs, protecting the health and safety of the cleanup crew, and properly disposing of contaminated materials (EPA 1985).

The abatement contractor removing the PCB-containing caulk and building materials from Paint Branch High School will follow the EPA guidance in *Handling PCBs in Caulk During Renovation* (EPA-747-F-09-004) and all relevant OSHA regulations (EPA 2009b).

4 MANAGEMENT OF PCB-CONTAMINATED MATERIALS

When removing caulk and surrounding building material that are known or suspected to contain PCBs, it is important to manage the removal in a way that minimizes workers' exposure to the PCBs (e.g., through use of respirators and gloves) and prevents the release of PCBs into the environment. Caulk containing PCBs at concentrations >50 ppm must be managed and disposed as PCB bulk product waste as defined in 40 CFR 761.3 and 761.62. Building materials (e.g., concrete and brick) that are coated with PCB-containing caulk at concentrations >50 ppm must be managed as PCB bulk product waste, with the same requirements as the >50 ppm PCB-containing caulk. In addition, building materials that have been contaminated by >50 ppm PCB-containing caulk (e.g., through leaching of PCBs) as well as any soils contaminated with PCBs from the caulk, also must be cleaned up. These materials must be treated as PCB remediation waste, as defined in 40 CFR 761.3, and managed in accordance with 40 CFR 761.61. The requirements in this section vary depending on, among other things, the type of building material that contains the PCBs (i.e., porous or non-porous) and the potential exposure levels remaining after cleanup is completed (EPA 2009a).

Paint Branch High School was originally constructed in 1969 with an addition to the east in 1987. The school will be demolished in summer 2012. Based on the historical caulk sampling from other MCPS locations, high concentrations of PCB additives have been found in schools constructed in the mid-1960s while schools constructed after 1978 have not found any PCB additives. Therefore, caulk samples were only collected from the door frames and window frames in the original 1969 building during a sampling survey conducted on 6 October 2011.

A total of 14 door frames are present in the original 1969 building. Using statistical analysis, caulk samples were collected from the door frames at Doors 2, 5, 7, 25, 27, 28, and 29. As shown in Figure 2, these door frame samples were numbered DR-02, -05, -07, -25, -27, -28, and -29, respectively. As shown in the sample results in Appendix A, PCBs were detected at Door 2 (102,000 mg/kg of Aroclor 1254) and Door 25 (60,200 mg/kg of Aroclor 1254) while PCBs were not detected at the other five door frames above the detection limit of 0.5 mg/kg. The sample results for the door frames are summarized in Table 1 and the PCB detections are shown in Figure 3. Upon examination of the visual survey notes, the doors on the northwest side of the building (i.e., Doors 5, 6, 7, and 8) and the doors near the kitchen entrance (i.e., Doors 27, 28, 28A, and 29) do not appear to be the original doors. Therefore, only Doors 1, 2, 3, 4, 25, and 26 are considered to be the original doors. These six doors will require removal and disposal as PCB-contaminated materials because they contain greater than 50 ppm of PCBs. One layer of brick (i.e., approximately 8 inches) surrounding the door frames will also be removed. A photograph of the caulk sample at Door 25 is provided in Figure 4.

Table 1. Door Frame Sample Results

Door Frame Sample Number	Aroclor 1254 Concentration
315-DR-02	102,000 mg/kg
315-DR-05	<22.1 mg/kg
315-DR-07	<0.5 mg/kg
315-DR-25	60,200 mg/kg
315-DR-27	<0.5 mg/kg
315-DR-28	<0.5 mg/kg
315-DR-29	<0.5 mg/kg

A total of 169 window frames are present in the original 1969 building. Using statistical analysis, caulk samples were collected from 11 window frames. As shown in Figure 2, these 11 window frame samples were numbered 315-FOW-01 to -11. As shown in the sampling results in Appendix A, high concentrations of PCBs (up to 200,000 mg/kg of Aroclor 1254) were detected from the window frames on the southwest side of the original building (i.e., 315-FOW-01 to -06) while PCBs were not detected from the window frames on the northwest side of the original building (i.e., 315-FOW-07 to -11). The sample results are summarized in Table 2 and the PCB detections are shown in Figure 3. These results are comparable to the PCB caulk concentrations in the door frame caulk in these locations. This also confirms that the window frames on the northwest side of the original building are not the original window frames. Therefore, only the 65 window frames on the southwest side of original building (i.e., between Door 5 and Door 25) are considered to be the "original" windows. These 65 window frames will require removal and disposal as PCB-contaminated materials because they contain greater than 50 ppm of PCBs. One layer of brick (i.e., approximately 8 inches) surrounding the window frames will also be removed. A photograph of the window frames with high concentrations of PCBs is shown in Figure 5.

Table 2. Window Frame Sample Results

Window Frame Sample Number	Aroclor 1254 Concentration
315-FOW-01	128,000 mg/kg
315-FOW-02	168,000 mg/kg
315-FOW-03	171,000 mg/kg
315-FOW-04	178,000 mg/kg
315-FOW-05	200,000 mg/kg
315-FOW-06	154,000 mg/kg
315-FOW-07	<0.5 mg/kg
315-FOW-08	<0.5 mg/kg
315-FOW-09	<0.5 mg/kg
315-FOW-10	<0.5 mg/kg
315-FOW-11	<0.5 mg/kg

A summary of the six door frames and 65 window frames requiring removal and disposal as PCB bulk product wastes during the building demolition is shown in Table 3.

Table 3. Summary of PCB Bulk Product Wastes

Caulk Type	Location	PCB Concentrations
Door Frames	Doors 1, 2, 3, 4, 25, and 26	Up to 10% Aroclor 1254
Window Frames	All 65 window frames on the southwest side of the original building (between Door 5 and Door 25)	Up to 20% Aroclor 1254

5 NOTIFICATION OF PCB CLEANUP ACTIVITIES

40 CFR 761.61 covers the regulations for self-implementing on-site cleanup and disposal of PCB remediation wastes. The EPA designed the self-implementing procedure for a general, moderately-sized site where there should be low residual environmental impact from remedial activities. (This describes the Paint Branch High School site.)

As part of the self-implementing procedures, the property owner (i.e., Montgomery County Public Schools) is submitting this report to the EPA Region III Office prior to the date that the cleanup of the site begins. Cleanup activities will begin when approval is received. This notification includes the required information shown in Table 4.

6 SOIL CLEANUP LEVELS

The door frames and window frames are not in contact with soil. Therefore, the soils will not require cleanup during the window frame and door frame removal.

Table 4. Notification Information Required by 40 CFR 761.61

Regulatory Citation	Required Notification Information	Location of Information
40 CFR 761.61(a)(3)(i)(A)	The nature of the contamination, including kinds of materials contaminated.	Section 4
40 CFR 761.61(a)(3)(i)(B)	A summary of the procedures used to sample contaminated and adjacent areas and a table or cleanup site map showing PCB concentrations measured in all pre-cleanup characterization samples. The summary must include sample collection and analysis dates.	Section 4
40 CFR 761.61(a)(3)(i)(C)	The location and extent of the identified contaminated area, including maps with sample collection sites cross referenced to the sample identification numbers.	Figures 1, 2, 3, 4, and 5
40 CFR 761.61(a)(3)(i)(D)	A cleanup plan for the site, including schedule, disposal technology, and approach. This plan should contain options and contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation waste are found or other obstacles force changes in the cleanup approach.	Sections 6 and 7
40 CFR 761.61(a)(3)(i)(E)	A written certification, signed by the owner of the property where the cleanup site is located and the party conducting the cleanup, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate, and are available for EPA inspection.	Inside front cover

7 REMEDIATION VERIFICATION SAMPLING

MCPS personnel state that they will remove one layer of brick (i.e., approximately 8 inches) surrounding the door frames and window frames to ensure that any PCBs leaching into the porous brick surrounding the frames have been removed and the remaining brick contains less than 50 ppm of PCBs. The requirements of 40 CFR 761.283 require a minimum of three samples at each separate cleanup site (per media). Therefore, three confirmatory brick samples will be collected at three randomly selected window or door frames after removal has been completed.

A stainless steel pick will be used to collect each brick sample and place it in the appropriate laboratory precleaned glass container. After the bottles are capped and labeled, they will be placed in an ice chest to cool it to 4° C.

One duplicate brick sample will also be collected and analyzed to check on laboratory Quality Assurance (QA) procedures. In addition, an equipment rinse blank will be collected to ensure that the steel pick is being decontaminated properly between sample points and not causing cross-contamination. The total number of brick verification samples is summarized in Table 5. The sample containment and preservation methods are summarized in Table 6.

Table 5. Summary of Sampling and Analysis Requirements

Analysis/ Method	Analyte	Required Detection Limit (ppm)	Brick Verification Samples	Field Duplicate Samples	Equipment Rinsates	Total
SW-846 8082	PCBs	0.5	3	1	1	5

Table 6. Summary of Sample Containment and Sample Preservation Methods

Parameter	Sample Matrix	Analytical Method	Sample Container	Preservation Methods	Holding Times
PCBs	Brick	SW-846 8082	4-ounce, amber glass	Cool, 4° C	28 days
	Rinse Water	SW-846 8082	80-mL sterile container	Cool, 4° C	28 days

8 FIELD OPERATIONS DOCUMENTATION

Although there are no TSCA requirements for records of PCB cleanup activities except for documentation of PCBs stored or transported for disposal (required by 40 CFR 761.80[a]), records of the spill cleanup will be kept in case of future questions or concern. Relevant information may include dates, a description of activities, records of shipment and disposal of PCB-contaminated materials, and a report of collected samples and results of analysis (EPA 1985).

Sufficient information will be recorded during field sampling in the field logbooks to permit reconstruction of all sampling activities conducted. In addition, a digital photographic record will be made during the field program to document field operations.

Because data from samples collected may be reviewed by outside agencies, chain of custody (CoC) procedures will be followed. Samples will be secured from unauthorized access during the period of sampling. Prior to shipment of samples to the analytical laboratory, a properly completed CoC record will be placed in each shipping container. Sampling personnel will maintain a copy of the CoC record for verification of sample transport.

After samples reach the laboratory, they will be checked against information reported on the CoC forms for anomalies. The condition, temperature, and appropriate preservation of the samples will be checked and documented on the CoC form. The occurrence of any anomalies in the received samples and decisions regarding the potentially affected samples will be documented in laboratory records.

9 INVESTIGATION-DERIVED WASTE

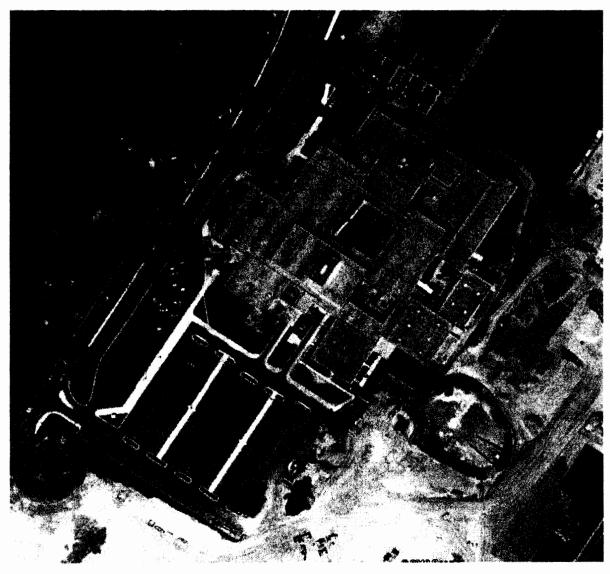
Waste may be classified as non-investigative waste or investigation-derived waste (IDW). Non-investigative waste, such as litter and household garbage, will be collected on an as-needed basis at each sample location in a clean and orderly manner. This waste will be containerized in a plastic bag and transported to a designated dumpster within Paint Branch High School.

IDW includes PCB remediation wastes, decontaminated building materials, hydrocarbon solvent wastes, sampling equipment cleaning fluids, and personal protective equipment (PPE). These IDW types will be disposed of as follows:

- 1) **PCB Remediation Wastes** The PCB remediation wastes (i.e., PCB-containing caulk from the window and door frames and porous brick in contact with the caulk) will be disposed of as PCB bulk product waste in accordance with TSCA regulations in an approved landfill.
- 2) **Decontaminated Building Materials** After removing the PCB-containing caulk from the non-porous aluminum window frames and metal door frames and cleaning the frames with a hydrocarbon solvent, the window and door frames will be disposed of as construction debris.
- 3) Hydrocarbon Solvent Wastes The subcontractor will use a hexane-based solvent to clean the window and door frames after scraping off the PCB-containing caulk. Disposal of the hydrocarbon solvent wastes will follow the regulations in 40 CFR 761.79. Specifically, because the hydrocarbon solvent wastes are assumed to contain less than 50 ppm of PCBs, the regulations in 40 CFR 761.79(g)(3) may be followed.
 - (3) Hydrocarbon solvent used or reused for decontamination under this section that contains <50 ppm PCB must be burned and marketed in accordance with the requirements for used oil in §761.20(e), disposed of in accordance with §761.60(a) or (e), or decontaminated pursuant to this section.
- 4) **PPE** Disposable PPE (e.g., nitrile gloves) will be placed in the plastic bag with the non-investigative waste for disposal.

10 REFERENCES

EPA 1985 U.S. Environmental Protection Agency (EPA). Verification of PCB Spill Cleanup by Sampling and Analysis (EPA-560/5-85-026), August 1985. EPA 1986 U.S. Environmental Protection Agency (EPA). Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup (EPA-560/5-86-017), May 1986. U.S. Environmental Protection Agency (EPA). PCBs in Caulk in Older Buildings, EPA 2009a downloaded from http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/index.htm on 26 January 2010, page last updated on 8 January 2010. EPA 2009b U.S. Environmental Protection Agency (EPA). Handling PCBs in Caulk During Renovation (EPA-747-F-09-004), September 2009 NIH 2006 National Institutes of Health (NIH). Soil Contamination from PCB-Containing Buildings, 6 November 2006.



Source: Google Earth 2011

Figure 1. Overall Layout of Paint Branch High School, Burtonsville, Maryland

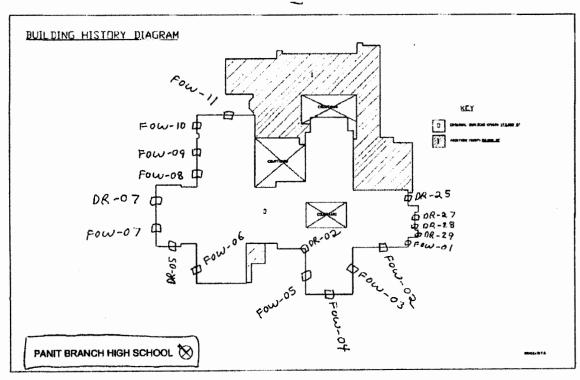


Figure 2. Door Frame (DR) and Window Frame (FOW) Sampling Locations

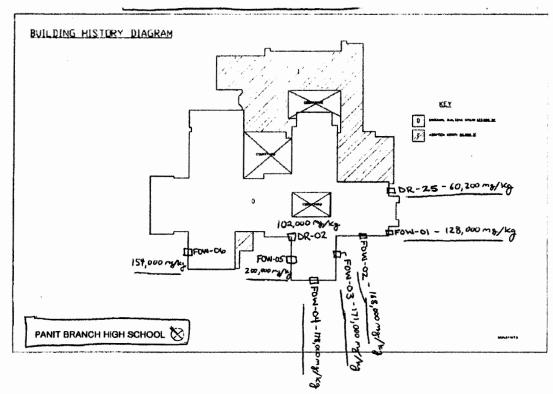


Figure 3. Location of Door Frames and Window Frames with PCB Detections

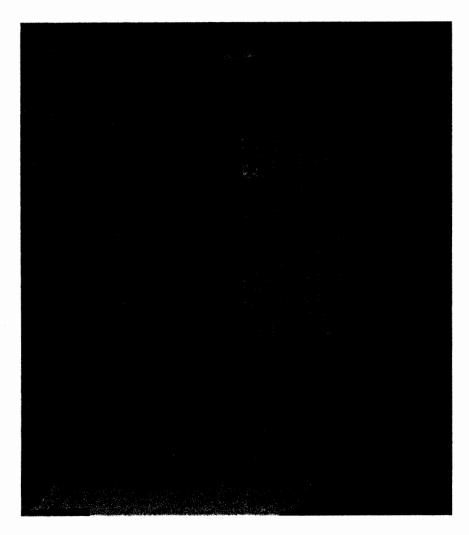


Figure 4. Location of Door 25 and the 315-DR-25 Caulk Sample



Figure 5. Location of the 315-FOW-03 Window Frame Sample

Appendix A. PCB C	'aulk Sample Laborat	tory Results	



Phone: (804)365-3000 Fax: (804)365-3002

October 19, 2011

JOHN WHELPLEY S A I C 12100 SUNSET HILLS ROAD RESTON, VA 20190

Purchase Order:

PO10088390

Client ID:

PAINT BRANCH HS

Workorder.

1008546

Dear JOHN WHELPLEY:

Enclosed are the analytical results for sample(s) received by the laboratory on on Monday, October 10, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Unless otherwise specified all analyses of solid materials are based on dry weight.

The signature at the end of this report certify that the results are based on the referenced methods and unless otherwise noted meet the requirements of NELAC.

Reported results relate only to the items tested, as received by the laboratory

On-site analysis (analysis ASAP) is recommended for the following tests: pH, temperature, dissolved oxygen, residual chlorine and sulfite. Whenperformed off-site, these tests do not meet NELAC standards.

Abbreviations:ug/L = micrograms per Liter, mg/L = milligrams per Liter, ug/g = micrograms per gram, mg/kg = milligrams per kilogramug/wp = micrograms per wipe, ug/ml = micrograms per millimeter, uS = microsiemens per centimeter at 25 degrees Celciusppb = parts per billion, DF = Dilution Factor

If you have any questions concerning this report, please feel free to call Client Services at 1-800-888-8061.

Sincerely

Dawn Casto

Technical Director (or designee)

Enclosures

Report ID: 1008546 - 867316

Page 1 of 21



Phone: (804)365-3000 Fax: (804)365-3002

SAMPLE SUMMARY

Workorder: 1008546 PAINT BRANCH HS

Lab ID	Sample iD	Matrix	Date Collected	Date Received
1008546001	315-FOW-01	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546002	315-FOW-02	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546003	315-FOW-03	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546004	315-FOW-04	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546005	315-FOW-05	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546006	315-FOW-06	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546007	315-FOW-07	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546008	315-FOW-08	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546009	315-FOW-09	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546010	315-FOW-10	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546011	315-FOW-11	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546012	315-DR-02	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546013	315-DR-05	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546014	315-DR-07	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546015	315-DR-25	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546016	315-DR-27	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546017	315-DR-28	Bulk	10/6/2011 00:00	10/10/2011 10:00
1008546018	315-DR-29	Bulk	10/6/2011 00:00	10/10/2011 10:00

Report ID: 1008546 - 867316

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546001

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-01

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Ву Analyzed Ву Qual

Polychlorinated Binhanyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method	t: SW-846 3550B (PCB)		
	Analyti	cal Method:	SW-846 8082		
Aroclor 1016	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	MBC
Arodor 1221	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	мвс
Aroclor 1232	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	МВС
Aroclor 1242	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	мвс
Aroclor 1248	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	МВС
Aroclor 1254	128000 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	МВС
Aroclor 1260	<9400 mg/Kg	9400	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:13	MBC

Report ID: 1008546 - 867316

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Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder: 1008546 PAINT BRANCH HS

 Lab ID:
 1008546002
 Date Received:
 10/10/2011 10:00
 Matrix: Bulk

 Sample ID:
 315-FOW-02
 Date Collected:
 10/6/2011 00:00
 Samp Type: NA

Parameters Results Units Report Limit DF Prepared By Analyzed By Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method	I: SW-846 3550B (PCB)			
	Analyti	cal Method:	SW-846 8082			
Aroclor 1016	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1221	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1232	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1242	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1248	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1254	168000 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC
Aroclor 1260	<7720 mg/Kg	7720	5000 10/14/2011 08:47 0	JRM	10/17/2011 10:33	MBC

Report ID: 1008546 - 867316

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546003

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-03

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Ву Analyzed Ву Qual

Polychlorinated Binhenvis(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method	I: SW-846 3550B (PCB)		
	Analyti	cal Method:	SW-846 8082		
Arodor 1016	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	MBC
Aroclor 1221	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	МВС
Aroclor 1232	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	МВС
Arodor 1242	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	MBC
Aroclor 1248	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	MBC
Arodor 1254	171000 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	MBC
Aroclor 1260	<6410 mg/Kg	6410	5000 10/14/2011 08:47 0	JRM 10/17/2011 10:53	мвс

Report ID: 1008546 - 867316

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Report Limit

Workorder:

1008546 PAINT BRANCH HS

Results Units

Lab ID:

1008546004

Sample ID: 315-FOW-04

Date Received: 10/10/2011 10:00

Matrix: Bulk

Parameters

Date Collected: 10/6/2011 00:00 DF Prepared

Analyzed

Ву

Samp Type: NA

Ву

Qual

Daluahlaringtod Diahamile/DCD

Polychlorinated Biphenyis(PCB)					
Analysis Desc: SW-846 8082	Prepara	ation Method	I: SW-846 3550B (PCB)		
	Analytic	cal Method:	SW-846 8082		
Arodor 1016	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1221	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1232	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1242	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1248	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1254	178000 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC
Aroclor 1260	<5950 mg/Kg	5950	5000 10/14/2011 08:47 0	JRM 10/17/2011 11:12	MBC

Report ID: 1008546 - 867316

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder.

1008546 PAINT BRANCH HS

Lab ID:

1008546005

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-05

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit DF Prepared Ву Analyzed

Qual Ву

Polychiorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method	: SW-846 3550B (PCB)			
	Analyti	cal Method:	SW-846 8082			
Arodor 1016	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC
Aroclor 1221	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC
Arodor 1232	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC
Aroclor 1242	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC
Arodor 1248	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	мвс
Arodor 1254	200000 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC
Aroclor 1260	<9330 mg/Kg	9330	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:32	MBC

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CERTIFICATE OF ANALYSIS



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ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546006

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-06

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit DF Prepared

Analyzed Ву

Ву Qual

Analysis Desc: SW-846 8082	Prepar	ation Method	I: SW-846 3550B (PCB)			
	Analyti	cal Method:	SW-846 8082			
Aroclor 1016	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	MBC
Arodor 1221	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	МВС
Arodor 1232	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	MBC
Arodor 1242	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	MBC
Arodor 1248	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	MBC
Arodor 1254	154000 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	MBC
Arador 1260	<8740 mg/Kg	8740	5000 10/14/2011 08:47 0	JRM	10/17/2011 11:52	МВС

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CERTIFICATE OF ANALYSIS



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ANALYTICAL RESULTS

Report Limit

Workorder.

1008546 PAINT BRANCH HS

Results Units

Lab ID:

1008546007

Date Received: 10/10/2011 10:00

DF Prepared

Matrix: Bulk

Sample ID: 315-FOW-07

Parameters

Date Collected: 10/6/2011 00:00

Ву

Analyzed

Samp Type: NA

Ву

Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method:	SW-846 3550B (PCB)						
Analytical Method: SW-846 8082									
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:31	MBC			

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ANALYTICAL RESULTS

Workorder.

1008546 PAINT BRANCH HS

Lab ID:

1008546008

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-08

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Analyzed

Ву

Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ration Method:	SW-846 3550B (PCB)						
Analytical Method: SW-846 8082									
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Arodor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Araclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 12:53	MBC			

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ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546009

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-09

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Ву Analyzed Ву

Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method:	SW-846 35508 (PCB)							
Analytical Method: SW-846 8082										
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Arodor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:15	MBC				

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ANALYTICAL RESULTS

Workorder: 1008546 PAINT BRANCH HS

Lab 1D: 1008546010 Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-FOW-10

Date Collected: 10/6/2011 00:00

Samp Type: NA

Results Units Report Limit DF Prepared Analyzed Ву Qual **Parameters**

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 80	82 Prepar	ation Method:	SW-846 3550B (PCB)						
Analytical Method: SW-846 8082									
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Arodor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 13:37	MBC				

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546011

Sample ID: 315-FOW-11

Date Received: 10/10/2011 10:00

Matrix: Bulk

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Ву Analyzed Ву Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method:	SW-846 3550B (PCB)						
Analytical Method: SW-846 8082									
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	MBC			
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	мвс			
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	MBC			
Arodor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	мвс			
Arodor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	MBC			
Arodor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	MBC			
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM	10/17/2011 13:59	MBC			

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CERTIFICATE OF ANALYSIS



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ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546012

Date Received: 10/10/2011 10:00 Matrix: Bulk

Sample ID: 315-DR-02

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Analyzed Ву

Ву Qual

Analysis Desc: SW-846 8082	Prepar	ation Method	1: SW-846 3550B (PCB)			
	Analyt	ical Method:	SW-846 8082			
Aroclor 1016	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	МВС
Arodor 1221	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	MBC
Arodor 1232	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	MBC
Aroclor 1242	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	MBC
Aroclor 1248	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	MBC
Aroclor 1254	102000 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	MBC
Aroclor 1260	<10200 mg/Kg	10200	5000 10/14/2011 08:47 0	JRM	10/17/2011 14:21	МВС

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546013

Sample ID: 315-DR-05

Date Received: 10/10/2011 10:00

Matrix: Bulk

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit

DF Prepared

Ву Analyzed Ву Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepare	ation Method	: SW-846 3550B (PCB)		
	Analytic	cal Method: S	SW-846 8082		
Aroclor 1016	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC 1
Arodor 1221	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC
Aroclor 1232	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC
Aroclor 1242	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC
Aroclor 1248	<22,1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC
Aroclor 1254	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC
Aroclor 1260	<22.1 mg/Kg	22.1	100 10/14/2011 08:47	JRM 10/17/2011 14:43	MBC

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ANALYTICAL RESULTS

Workorder.

1008546 PAINT BRANCH HS

Lab ID:

1008546014

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-DR-07

Date Collected: 10/6/2011 00:00

Samp Type: NA

Ву

Parameters

Results Units

Report Limit

DF Prepared

Analyzed Ву

Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method:	SW-846 3550B (PCB)							
Analytical Method: SW-846 8082										
Arodor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Arodor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Arodor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Arodor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 08:47	JRM 10/17/2011 15:05	MBC					

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546015 Sample ID: 315-DR-25

Date Received: 10/10/2011 10:00

Matrix: Bulk

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit DF Prepared Analyzed

Ву Qual

Analysis Desc: SW-846 8082	Prepar	ation Method	t: SW-846 3550B (PCB)			
	Analyti	cal Method:	SW-846 8082			
Arodor 1016	<4130 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC
Arodor 1221	<4130 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC
Aroclor 1232	<4130 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC
Aroclor 1242	<4130 mg/Kg	4130	2000 10/14/2011 08:47	JRM	10/17/2011 15:27	MBC
Aroclor 1248	<4130 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC
Aroclor 1254	60200 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC
Arodor 1260	<4130 mg/Kg	4130	2000 10/14/2011 08:47 0	JRM	10/17/2011 15:27	MBC

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546016

Date Received: 10/10/2011 10:00

Matrix: Bulk

Sample ID: 315-DR-27

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

Report Limit DF Prepared Ву Analyzed Ву . Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar	ation Method:	SW-846 3550B (PCB)							
Analytical Method: SW-846 8082										
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	MBC				
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	MBC				
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	MBC				
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	мвс				
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	MBC				
Arodor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	МВС				
Arodor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:33	MBC				

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ANALYTICAL RESULTS

Report Limit

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546017

Sample ID: 315-DR-28

Date Received: 10/10/2011 10:00

Matrix: Bulk

Date Collected: 10/6/2011 00:00

Samp Type: NA

Parameters

Results Units

DF Prepared

Ву Analyzed Ву Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Prepar					
	Analyt	ical Method: S\				
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Arodor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC
Aroclor 1260	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 16:54	MBC

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Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS

Workorder:

1008546 PAINT BRANCH HS

Lab ID:

1008546018

Sample ID: 315-DR-29

Date Received: 10/10/2011 10:00

Matrix: Bulk

Date Collected: 10/6/2011 00:00

Ву

Samp Type: NA

Parameters

Results Units

Report Limit DF Prepared

Analyzed

Ву

Qual

Polychlorinated Biphenyls(PCB)

Analysis Desc: SW-846 8082	Preparation Method: SW-846 3550B (PCB)									
Analytical Method: SW-846 8082										
Aroclor 1016	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1221	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1232	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1242	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1248	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1254	<0.500 mg/Kg	0.500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				
Aroclor 1260	<0.500 mg/Kg	0,500	1 10/14/2011 19:43	JRM	10/17/2011 17:15	MBC				

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CERTIFICATE OF ANALYSIS



Phone: (804)365-3000 Fax: (804)365-3002

ANALYTICAL RESULTS QUALIFIERS

Workorder:

1008546 PAINT BRANCH HS

PARAMETER QUALIFIERS

[1] Reporting limit elevated due to sample dilution prior to analysis. Sample diluted due to matrix.

Report ID: 1008546 - 867316

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CERTIFICATE OF ANALYSIS

LABORATORY TEST REQUEST

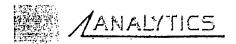
ACCOUNT NUMBER, NAME AND ADDRESS

8 A 1 C M/S E-7-4 8301 BREENSBORO DRIVE MCLEAN, VA 88)02 Phone: 703-876-8780 Fax:)-703-875-8508 PROJ#: AML00084



10329 Stony Run Lane Ashland, VA 23005 (804) 365-3000 TOLL FREE (800) 888-8061 FAX (804) 365-3002

1	# OF SAMPLES ,	SAMPLE TYPE	/MEDIA	1 _	ME OR NUMB	_
10/7/11	18	COU	ik	Paint Br	inch H.	S 202198,00,00,00.00
PURCHASE ORDER NO		CONTACT			ELEPHONE NU	IMBER
PO 1008	8390	Sol	ha Who	ispley	(70)	3) 676-8944
1			TIONS AND/OR UN		IS:	☐ FAX RESULTS FAX NUMBER:
*□SAMEDAY *□1DAY	• ☐ 2 DAY EXSTANDARD	71-0	week T	AT		DEMAIL RESULTS - EMAIL:
* CALL FOR AVAILABILIT						DEMAIL RESULTS - EMAIL:
FOR LABORATORY USE ONL	Y SAMPLE # OR SAMPLE AR	EA SAMPL	LE DATE V	SAMPLE OLUME/LITERS	AN/ LABOR	ALYSIS REQUESTED-PLEASE USE SEPARATE ATORY TEST REQUEST FOR EACH SAMPLE TYPE
	315-FOW-DI	10/	16/11 3	5 grams	PC	. O'S
	315 - FOLU-01		1			
	315-1-000-03	3		در میداند		
	315-FOLW-09	ر. د				
	315-FOW-0	5.		-		
	315-FOW-0	6				
	315-FUW-0	7		1		
	315-170W-0	3				
	315-1700-0	·9				
	315-FOW-1	0				
	315-FOW-1	1	1			
	315 - DR - 03	i.				
	315 - DA - 03					
	315 - DR - 0"		<u> </u>			
	315-DR-25	7		-		
	315-DR-2	9	/	Ψ	1	/
	STANTS	67 3 8	5113	F G T G T	V (5)	EGARDA
SAMPLES HAVE BE	EN SEALED FOR TRANSI ORATORY VIA:	ORT AND			m	A-MA
					SIGN HERI	E TO INITIATE CHAIN OF CUSTODY
Fed E		. KANIAN VETICE	COUNTY OF COM	irer a		10/7/2011
CARRIER DATE/TIME	CONDITION OF SAI		COURIER" SIGN	ES RECEIVED B	DATE	SAMPLES RELEASED BY:
10-111-	1/ 100 NA		SIGNATUREISA	MPLE RECEIVIN	G)	SIGNATURE(SAMPLE RECEIVING)
- ' ' ' '	10-01		SIGNATURE(SA	MPLE ADMINIS	TRATION)	SIGNATURE(SAMPLE ADMINISTRATION)
-		()	JAME		. پسوسر م	
		, , , , , , , , , , , , , , , , , , ,	SIGNATURE(LA	3 / 6-1 2 /	three to de	SIGNATURE(LAB)
			SIGNATURE(LA	B)		SIGNATURE(LAB)
PI FASE BETAIN	PART 3 FOR YOUR	RECORDS				



Sample Container Receipt Form Version 6-24-2011

Work Order:

1008546

Customer Name: SAIC

45209005 AML000

CLIENT SAMPLE	ID LAB CONTAINER ID	TYPE OF CONTAINER	QTY	Temp(C)	pН	Chiorine on Arrival (ppm)	Condition Code	Preservative .
315-FOW-01	1008546001-A	Client	1	20			OK	NONE
315-FOW-02	1008546002-A	Client	1	20			OK	NONE
315-FOW-03	1008546003-A	Client	11	20	• • •		ÓΚ	NONE
315-FOW-04	1008546004-A	Client	1	20		· ·	ОК	NONE
315-FOW-05	1008546005-A	Client	1	20		41	ОК	NONE
315-FOW-06	1008546006-A	Client	1	20			ОК	NONE
315-FOW-07	1008546007-A	Client	1	20			OK	NONE
315-FOW-08	1008546008-A	Client	1	20	•		OK	NONE
315-FOW-09	1008546009-A	Client	1	20		. 4	ОК	NONE
315-FOW-10	1008546010-A	Client	1	20		•	OK .	NONE
315-FOW-11	1008546011-A	Client	1	20	i	r	OK	NONE
315-DR-02	1008546012-A	Client	1	20			ОК	NONE
315-DR-05	1008546013-A	Client	1	20	1 .		ОК	NONE
315-DR-07	1008546014-A	Client	1	20			ОК	NONE
315-DR-25	1008546015-A	Client] 1	20	-	1	ОК	NONE
315-DR-27	1008546016-A	Client	1	20	•	i_	OK	NONE
315-DR -28	1008546017-A	Client	<u>!</u> 1	20	Ï	,	ОК	NONE
315-DR-29	1008546018-A	Client	11	20	7		OK "	NONE

Sample Custodian Signature

ONLINE DOCUMENTS\Forms . Worksheets\Sample Receiving\Sample Container Receipt For